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| Name: | Date: |
| Course/Subject: Keystone Algebra I | Team: |
| Topic: Functions | School District: Blue Mountain |

Key Learning: Analyze and/or use patterns or relations. Interpret and/or use linear functions and their equations, graphs, or tables.

Unit Essential Question: What are the different aspects of a function?

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| Concept: Relations and Functions | Concept: Domain and Range of a function | Concept: Function Evaluation |
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| Lesson Essential Questions:   * Is a relation a function? (from maps, ordered pairs, graphs) * Explain when a relation is a function. (ET) | Lesson Essential Questions:   * How do we find the domain and range of a function? * Explain how to graphically find the domain and range of a function. (ET) | Lesson Essential Questions:   * How do we evaluate a function? * Describe the steps in evaluating a function. (ET) |
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| Vocabulary:   * Relation * Function * Mapping diagram * Vertical line test * Independent variable * Dependent variable | Vocabulary:   * Domain * Range * Function | Vocabulary:   * Function |
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| Additional Information/Resources:  PA Standards: 2.8 | | |

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| Concept: Solve and graph functions | Concept: Problem solve with functions | Concept: | Concept: | Concept: |
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| Lesson Essential Questions:   * How can we create, interpret, and/or use the equation, graph, or table of a function? * Using real world data create an table, graph and an equation to describe a function. | Lesson Essential Questions:   * How do we use the properties of functions to solve problems? * Describe the properties you would use to solve a given function. | Lesson Essential Questions: | Lesson Essential Questions: | Lesson Essential Questions: |
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| Vocabulary:   * Function * Graphing * Roots * Intercepts | Vocabulary:   * Linear Functions | Vocabulary: | Vocabulary: | Vocabulary: |